

ATTACHMENT 1. COST ESTIMATE FOR PAVILLION AREA GROUNDWATER INVESTIGATION TO BE CONDUCTED BY CONSULTANT WITH WDEQ OVERSIGHT

Estimated Timeline	Activity	Schedule of Charges	Hourly Rate or Charge	Hours or Unit Estimate	Subtotal
1. Ongoing	<b>Project Management</b> - Coordinate scope and schedule of project activities with WDEQ and subcontractors - Provide regular project updates to WDEQ via e-mail and/or telephone conferences	Principal Project Manager Project Engineer/Geologist Project Support	\$140 \$105 \$80 \$40	50 100 150 40	\$7,000 \$10,500 \$12,000 \$1,600
	<b>WDEQ COSTING ASSUMPTION:</b> - Project management cost will total ~10% of total project cost	<b>Labor</b> No expenses expected with PM Task			\$31,100 \$0
		<b>Expenses</b> Other		0	\$0 \$0
		<b>Subcontractors</b>			\$0
		<b>Activity 1. Subtotal</b>			\$31,100
2. 4 months	<b>Develop HASP, SAP, and QAPP</b> - Development of project specific Health and Safety Plan to incorporate groundwater sampling and drilling activities - Development of a Sampling and Analysis Plan - Development of a Quality Assurance Project Plan	Principal Project Manager Project Engineer/Geologist Drafting HSE Department Project Support	\$140 \$105 \$80 \$60 \$80 \$40	12 25 80 10 20 8	\$1,680 \$2,625 \$6,400 \$600 \$1,600 \$320
	<b>Assumptions:</b> - WDEQ will review documents and documents will be revised per WDEQ comments - Assumes that there will be two rounds of review and comments by WDEQ before finalizing	<b>Labor</b> Miscellaneous Cost			\$13,225 \$100
	<b>WDEQ COSTING ASSUMPTION:</b> - None	<b>Expenses</b> Other		0	\$100 \$0
		<b>Subcontractors</b>			\$0
		<b>Activity 2. Subtotal</b>			\$13,325

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3.	2 months	<b>Property Owner Access Agreements</b>			
	- Prepare access agreements with property owners to allow access to property for contractor, subcontractors, and WDEQ personnel.	Principal	\$140	4	\$560
	1) Sampling of domestic water wells and monitoring wells	Project Manager	\$105	6	\$630
	2) Downhole Camera work on drinking water wells	Project Engineer/Geologist	\$80	10	\$800
	3) Installation of monitoring wells	Project Support	\$40	4	\$160
	<b>Assumptions:</b>	<b>Labor</b>			<b>\$2,150</b>
	- Property owner access agreements can be requested at concurrently with development of HASP, SAP, and QAPP				
		Miscellaneous	Cost	0	\$100
	<b>WDEQ COSTING ASSUMPTION:</b>	<b>Expenses</b>			<b>\$100</b>
	- Assumes that selected contractor will pursue property access agreements, WDEQ may want to do property access agreements prior to/during RFP process to identify any potential access issues	Other		0	\$0
		<b>Subcontractors</b>			<b>\$0</b>
		<b>Activity 3. Subtotal</b>			<b>\$2,250</b>
4.	1 week	<b>Downhole Camera of Drinking Water Wells</b>			
	- Decontaminate the downhole camera prior to work at each well	Principal	\$140	2	\$280
	- Complete a methane gas survey of the well headspace prior to doing camera work	Project Manager	\$105	6	\$630
	- Record the results of the camera, and provide results to the WDEQ	Field Technician	\$80	80	\$6,400
	- Collect field notes of procedures used and any issues noted				
	- Informal survey of property, and within 1000 ft of the property to determine potential onsite sources of 'impacts' to the drinking water wells.				
	<b>Assumptions:</b>	<b>Labor</b>			<b>\$7,310</b>
	- Downhole camera will be able to fit within the drinking water well without removing the well owner's water supply pump				
	- Does not include potential for methane mitigation prior to doing the camera work	Equipment		1	\$2,420
	- Does not assume that an intrinsically safe camera will be able to be used	Travel	Cost	1	\$1,330
	- Property access agreements will be in place	Per Diem	\$46	7	\$322
	- Water well pumps will be turned off during the camera work	Miscellaneous	Cost	1	\$250
	- Assumes this will be completed prior to starting the drinking water well sampling program	<b>Expenses</b>			<b>\$4,322</b>
	- Assumes camera can be run based on battery power from field vehicle, no generator will be rented	Other		\$0	\$0
	- Assumes one field technician	<b>Subcontractors</b>			<b>\$0</b>
	<b>WDEQ COSTING ASSUMPTION:</b>	<b>Activity 4. Subtotal</b>			<b>\$11,632</b>
	- None				

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Estimated Timeline	Activity	Schedule of Charges	Hourly Rate or Charge	Hours or Unit Estimate	Subtotal	
5a. 12 months	<b>Baseline Sampling of Drinking Water Wells (15) per Sampling Event</b> - Coordinate with property owners and WDEQ regarding sample schedule - Coordinate with lab and equipment supplier - Collect groundwater quality readings while purging water through the property owner lines (Temp, pH, ORP, SpC, TDS, Turbidity, Salinity) - Collect groundwater samples after 3 consecutive in-limit readings - Collect groundwater samples into pre-preserved, laboratory provided bottles - Collect groundwater samples from 15 domestic wells for VOCs extended list, TPH-DRO, TPH-GRO, Lead, Methane Headspace, TPH-DRO silica cleanup - Collect QAQC parameters: 1 field duplicate, 1 MS/MSDS set (2 samples), 1 field blank, 2 equipment blanks - Collect 1 trip blank for analysis of VOCs per cooler containing VOC samples, estimated 5 coolers - Perform QAQC review of analytical data  <b>Assumptions:</b> - Assumes that well owner pumps will be operational for collection of groundwater samples from a tap closest to the well - Samples will be collected prior to any water treatment systems the property owner has installed - Samples will be shipped daily to the analytical laboratory - Assumes two field technicians, once technician may be able to be sent due to type of sampling  <b>WDEQ COSTING ASSUMPTION:</b> - Assumption is per sampling event, suggested minimum of 2 events prior to monitoring well installation	Principal	\$140	2	\$280	
		Project Manager	\$105	4	\$420	
		Project Engineer/Geologist	\$80	10	\$800	
		Field Technician	\$80	140	\$11,200	
		QAQC Specialist	\$90	20	\$1,800	
		<b>Labor</b>				<b>\$14,500</b>
		Equipment			0	\$0
		Travel	Cost		2	\$2,030
		Per Diem	\$46		14	\$644
		Miscellaneous	Cost		1	\$1,000
		<b>Expenses</b>				<b>\$3,674</b>
Analytical Laboratory				1	\$17,690	
<b>Subcontractors</b>					<b>\$17,690</b>	
<b>Activity 5a. Subtotal</b>					<b>\$35,864</b>	
5b. 3 months	<b>Report Results for Baseline Sampling of Drinking Water Wells for 2 Sampling Events</b> - Draft letter report detailing procedures, deviations, and results of the DWW baseline sampling, monitoring well installation, and the DWW and MW sampling - Prepare figures and field photographs to document activities - Include lab reports and QAQC reports - Tabulate data - Include field logs, forms, and field notes in report  <b>Assumptions:</b> - Assumes that one review through WDEQ will be sufficient to finalize reports  <b>WDEQ COSTING ASSUMPTION:</b> - Assumes that one (1) letter report will include data from two (2) sampling events	Principal	\$105	8	\$840	
		Project Manager	\$80	10	\$800	
		Project Engineer/Geologist	\$80	40	\$3,200	
		Drafting	\$60	24	\$1,440	
		Project Support	\$40	8	\$320	
		<b>Labor</b>				<b>\$6,600</b>
		Equipment			0	\$0
		Travel	Cost		0	\$0
		Per Diem	\$48		0	\$0
		Miscellaneous	Cost		1	\$100
		<b>Expenses</b>				<b>\$100</b>
Analytical Laboratory				1	\$0	
<b>Subcontractors</b>					<b>\$0</b>	
<b>Activity 5b. Subtotal</b>					<b>\$6,700</b>	

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6a. 2 months	<b>Drilling Area of Interest #1 [REDACTED]</b> - Request utility locate prior to drilling activities - Oversee drilling activities, including lithologic logging of soils and screening soils with a PID - Include photo documentation from drilling activities - Oversee installation of 3 sets of 4 monitoring wells to the following depths: 50 ft bgs, 200 ft bgs, 500 ft bgs, and 750 ft bgs - Oversee development of monitoring wells	Principal Project Manager Project Engineer/Geologist Field Technician	\$140 \$105 \$80 \$80	4 8 20 200	\$560 \$840 \$1,600 \$16,000
	<b>Assumptions:</b> - Samples for soil or groundwater will not be collected for laboratory analysis - Assumes the driller mobilization charge will be included with this AOI, only 1 mobilization charge is assumed - Cost does not include a blow out preventor during drilling activities - Costs assume 1 field technician for drilling oversight due to lack of sampling - Assumes separate monitoring wells will be installed - Assumes monitoring wells will be installed using minimum 2-inch stainless steel casing and screen (deeper wells will be larger diameter)	<b>Labor</b> Equipment Travel Per Diem Miscellaneous	  Cost Cost	 1 1 17 1	 \$1,820 \$3,230 \$782 \$300
	<b>WDEQ COSTING ASSUMPTION:</b> - IDW disposal costs have not been included in this task	<b>Expenses</b> Driller Costs	    	 1	 \$1,029,500
		<b>Subcontractors</b>			<b>\$1,029,500</b>
		<b>Activity 6a. Subtotal</b>			<b>\$1,054,632</b>
6b.	<b>Drilling Area of Interest #2 [REDACTED]</b> - Request utility locate prior to drilling activities - Oversee drilling activities, including lithologic logging of soils and screening soils with a PID - Include photo documentation from drilling activities - Oversee installation of 2 sets of 3 monitoring wells to the following depths: 50 ft bgs, 200 ft bgs, 300 ft bgs - Oversee development of monitoring wells	Principal Project Manager Project Engineer/Geologist Field Technician	\$140 \$105 \$80 \$80	2 2 6 58	\$280 \$210 \$480 \$4,640
	<b>Assumptions:</b> - Samples for soil or groundwater will not be collected for laboratory analysis - Cost does not include a blow out preventor during drilling activities - Costs assume 1 field technician for drilling oversight due to lack of sampling - Assumes separate monitoring wells will be installed - Assumes monitoring wells will be installed using minimum 2-inch stainless steel casing and screen (deeper wells will be larger diameter)	<b>Labor</b> Equipment Travel Per Diem Miscellaneous	  Cost Cost	 1 1 6 0	 \$935 \$1,140 \$276 \$0
	<b>WDEQ COSTING ASSUMPTION:</b> - IDW disposal costs have not been included - Driller mobilization costs have not been included - Assumes that all drilling activities will be conducted during one mobilization	<b>Expenses</b> Driller Costs	    	 1	 \$253,500
		<b>Subcontractors</b>			<b>\$253,500</b>
		<b>Activity 6b. Subtotal</b>			<b>\$261,461</b>

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6c.	<b>Drilling Area of Interest #3 [REDACTED]</b> - Request utility locate prior to drilling activities - Oversee drilling activities, including lithologic logging of soils and screening soils with a PID - Include photo documentation from drilling activities - Oversee installation of 1 sets of 3 monitoring wells to the following depths: 50 ft bgs, 260 ft bgs, 500 ft bgs - Oversee development of monitoring wells	Principal Project Manager Project Engineer/Geologist Field Technician	\$140 \$105 \$80 \$80	2 2 4 46	\$280 \$210 \$320 \$3,680
	<b>Assumptions:</b> - Samples for soil or groundwater will not be collected for laboratory analysis - Cost does not include a blow out preventor during drilling activities - Costs assume 1 field technician for drilling oversight due to lack of sampling - Assumes separate monitoring wells will be installed - Assumes monitoring wells will be installed using minimum 2-inch stainless steel casing and screen (deeper wells will be larger diameter)	<b>Labor</b> Equipment Travel Per Diem Miscellaneous	  Cost  Cost	 1 1 3 0	 \$935 \$570 \$138 \$0
	<b>WDEQ COSTING ASSUMPTION:</b> - IDW disposal costs have not been included - Driller mobilization costs have not been included - Assumes that all drilling activities will be conducted during one mobilization	<b>Expenses</b> Driller Costs	    	 1	 \$185,250
		<b>Subcontractors</b>			<b>\$185,250</b>
		<b>Activity 6c. Subtotal</b>			<b>\$191,383</b>
6d.	<b>Drilling Area of Interest #4 [REDACTED]</b> - Request utility locate prior to drilling activities - Oversee drilling activities, including lithologic logging of soils and screening soils with a PID - Include photo documentation from drilling activities - Oversee installation of 1 sets of 4 monitoring wells to the following depths: 50 ft bgs, 100 ft bgs, 200 ft bgs, 300 ft bgs - Oversee development of monitoring wells	Principal Project Manager Project Engineer/Geologist Field Technician	\$140 \$105 \$80 \$80	2 2 4 46	\$280 \$210 \$320 \$3,680
	<b>Assumptions:</b> - Samples for soil or groundwater will not be collected for laboratory analysis - Cost does not include a blow out preventor during drilling activities - Costs assume 1 field technician for drilling oversight due to lack of sampling - Assumes separate monitoring wells will be installed - Assumes monitoring wells will be installed using minimum 2-inch stainless steel casing and screen (deeper wells will be larger diameter)	<b>Labor</b> Equipment Travel Per Diem Miscellaneous	  Cost  Cost	 1 1 3 0	 \$935 \$570 \$138 \$0
	<b>WDEQ COSTING ASSUMPTION:</b> - IDW disposal costs have not been included - Driller mobilization costs have not been included - Assumes that all drilling activities will be conducted during one mobilization	<b>Expenses</b> Driller Costs	    	 1	 \$150,250
		<b>Subcontractors</b>			<b>\$150,250</b>
		<b>Activity 6d. Subtotal</b>			<b>\$156,383</b>

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6e.	<b>Drilling Area of Interest #5 [redacted]</b> - Request utility locate prior to drilling activities - Oversee drilling activities, including lithologic logging of soils and screening soils with a PID - Include photo documentation from drilling activities - Oversee installation of 2 sets of 4 monitoring wells to the following depths: 50 ft bgs, 100 ft bgs, 450 ft bgs, 650 ft bgs - Oversee development of monitoring wells  <b>Assumptions:</b> - Samples for soil or groundwater will not be collected for laboratory analysis - Cost does not include a blow out preventor during drilling activities - Costs assume 1 field technician for drilling oversight due to lack of sampling - Assumes separate monitoring wells will be installed - Assumes monitoring wells will be installed using minimum 2-inch stainless steel casing and screen (deeper wells will be larger diameter)  <b>WDEQ COSTING ASSUMPTION:</b> - IDW disposal costs have not been included - Driller mobilization costs have not been included - Assumes that all drilling activities will be conducted during one mobilization	Principal Project Manager Project Engineer/Geologist Field Technician	\$140 \$105 \$80 \$80	2 2 4 118	\$280 \$210 \$320 \$9,440
<b>Labor</b>					<b>\$10,250</b>
Equipment					1 \$980
Travel					Cost 1 \$1,710
Per Diem					\$48 9 \$414
Miscellaneous					Cost 0 \$0
<b>Expenses</b>					<b>\$3,084</b>
Driller Costs					1 \$570,500
<b>Subcontractors</b>					<b>\$570,500</b>
<b>Activity 6e. Subtotal</b>					<b>\$583,834</b>
6f.	<b>Drilling Area of Interest [redacted]</b> - Request utility locate prior to drilling activities - Oversee drilling activities, including lithologic logging of soils and screening soils with a PID - Include photo documentation from drilling activities - Oversee installation of 1 sets of 3 monitoring wells to the following depths: 30 ft bgs, 100 ft bgs, 675 ft bgs - Oversee development of monitoring wells  <b>Assumptions:</b> - Samples for soil or groundwater will not be collected for laboratory analysis - Cost does not include a blow out preventor during drilling activities - Costs assume 1 field technician for drilling oversight due to lack of sampling - Assumes separate monitoring wells will be installed - Assumes monitoring wells will be installed using minimum 2-inch stainless steel casing and screen (deeper wells will be larger diameter)  <b>WDEQ COSTING ASSUMPTION:</b> - IDW disposal costs have not been included - Driller mobilization costs have not been included - Assumes that all drilling activities will be conducted during one mobilization	Principal Project Manager Project Engineer/Geologist Field Technician	\$140 \$105 \$80 \$80	2 2 4 46	\$280 \$210 \$320 \$3,680
<b>Labor</b>					<b>\$4,490</b>
Equipment					1 \$935
Travel					Cost 1 \$570
Per Diem					\$48 3 \$138
Miscellaneous					Cost 0 \$0
<b>Expenses</b>					<b>\$1,643</b>
Driller Costs					1 \$184,125
<b>Subcontractors</b>					<b>\$184,125</b>
<b>Activity 6f. Subtotal</b>					<b>\$190,258</b>

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7.	None	Investigation Derived Waste Disposal Costs			
	- Containerize and dispose of IDW generated waste from monitoring well drilling, development and sampling activities				
	<b>Assumptions:</b>				
		Disposal Costs		1	\$60,000
		<b>Subcontractors</b>			<b>\$60,000</b>
		<b>Activity 7. Subtotal</b>			<b>\$60,000</b>
8.	12 months	Sampling of Drinking Water Wells (15) and Monitoring Wells (36) and EPA MW01 per Sampling Event			
	- Coordinate with property owners and WDEQ regarding sample schedule				
	- Coordinate with lab and equipment supplier				
	- Collect groundwater quality readings while purging water through the property owner lines (Temp, pH, ORP, SpC, TDS, Turbidity, Salinity)				
	- Collect groundwater samples after 3 consecutive in-limit readings				
	- Collect groundwater samples into pre-preserved, laboratory provided bottles				
	- Decontaminate pump between each monitoring well location, dedicate tubing to each monitoring well				
	- Collect groundwater samples 52 wells for VOCs extended list, SVOCs, TPH-DRO, TPH-GRO, Lead, Methane Headspace, TPH-DRO silica cleanup				
	- Collect QA/QC parameters: 2 field duplicate, 2 MS/MSDS set (4 samples), 2 field blank, 4 equipment blanks)				
	- Collect 1 trip blank for analysis of VOCs per cooler containing VOC samples, estimated 17 coolers				
	- Perform QA/QC review of analytical data				
	<b>Assumptions:</b>				
	- Assumes that well owner pumps will be operational for collection of groundwater samples from a tap closest to the well				
	- Samples will be collected prior to any water treatment systems the property owner has installed				
	- Samples will be shipped daily to the analytical laboratory				
	- Assumes two field technicians				
	<b>WDEQ COSTING ASSUMPTION:</b>				
	- Assumption is per sampling event, suggested minimum of 2 events prior to reporting on results				
	- Assumes that all parameters will have to be sampled				
		Principal	\$140	2	\$280
		Project Manager	\$105	4	\$420
		Project Engineer/Geologist	\$80	10	\$800
		Field Technician	\$80	428	\$34,240
		QA/QC Specialist	\$90	40	\$3,600
		<b>Labor</b>			<b>\$39,340</b>
		Equipment		1	\$2,665
		Travel	Cost	2	\$5,330
		Per Diem	\$46	38	\$1,748
		Miscellaneous	Cost	1	\$2,000
		<b>Expenses</b>			<b>\$11,743</b>
		Analytical Laboratory		1	\$55,400
		<b>Subcontractors</b>			<b>\$55,400</b>
		<b>Activity 8. Subtotal</b>			<b>\$106,483</b>

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9.	6 months	<b>Report on Investigation</b> - Draft report detailing procedures, deviations, and results of the DWW baseline sampling, monitoring well installation, and the DWW and MW sampling - Prepare figures and field photographs to document activities - Include lab reports and QA/QC reports - Tabulate data - Prepare well logs and lithologic diagrams - Include field logs, forms, and field notes in report	Principal \$140 Project Manager \$105 Project Engineer/Geologist \$80 Field Technician \$80 Drafting \$60 Project Support \$40	24 50 200 100 60 20	\$3,360 \$5,250 \$16,000 \$8,000 \$3,600 \$800
		<b>Labor</b>			<b>\$37,010</b>
		Equipment		0	\$0
		Travel	Cost	0	\$0
		Per Diem	\$46	0	\$0
		Miscellaneous	Cost	1	\$100
		<b>Expenses</b>			<b>\$100</b>
		Other		1	\$0
		<b>Subcontractors</b>			<b>\$0</b>
		<b>Activity 9 Subtotal</b>			<b>\$37,110</b>
10.	4 months	<b>Conduct Hydrogeophysical Testing on Deep Monitoring wells and geophysical (Optional)</b> Hydrogeophysical testing company to be hired to conduct survey of the deepest monitoring well boring installed at each well set A total of 10 wells will be tested			
		Hydrogeophysical Testing		10	\$130,000
		<b>Subcontractors</b>			<b>\$130,000</b>
		<b>Activity Subtotal</b>			<b>\$130,000</b>
11.	Concurrent	<b>Gas Mudlogging</b> Gas mudlogging during drilling activities to determine gas 'shows'			
		<b>WDEQ COSTING ASSUMPTION:</b> - May be able to limit mudlogging to deeper wells as a cost control measure			
		Gas Mudlogging		1	\$100,000
		<b>Subcontractors</b>			<b>\$100,000</b>
		<b>Activity Subtotal</b>			<b>\$100,000</b>



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PAVILLION AREA GROUNDWATER INVESTIGATION ESTIMATE

Estimated Time			Task Total	Total sets of Task	Cost Estimate Total
Task 1	Ongoing	Project Management	\$31,100	1	\$31,100
Task 2	4 months	Develop HASP, SAP, and QAPP	\$13,325	1	\$13,325
Task 3	2 months	Property Owner Access Agreements	\$2,250	1	\$2,250
Task 4	1 week	Downhole Camera of Drinking Water Wells	\$11,632	1	\$11,632
Task 5a	12 months	Baseline Sampling of Drinking Water Wells (15) per Sampling Event	\$35,864	2	\$71,728
Task 5b	3 months	Report Results for Baseline Sampling of Drinking Water Wells for 2 Sampling Events	\$6,700	1	\$6,700
Task 6a	2 months	Drilling Area of Interest #1 (b)(6) privacy (Landowner name)	\$1,054,632	1	\$1,054,632
Task 6b	0	Drilling Area of Interest #2 (b)(6) privacy (Landowner name)	\$261,461	1	\$261,461
Task 6c	0	Drilling Area of Interest #3 (b)(6) privacy (Landowner name)	\$191,383	1	\$191,383
Task 6d	0	Drilling Area of Interest #4 (b)(6) privacy (Landowner name)	\$156,383	1	\$156,383
Task 6e	0	Drilling Area of Interest #5 (b)(6) privacy (Landowner name)	\$583,834	1	\$583,834
Task 6f	0	Drilling Area of Interest #6 (b)(6) privacy (Landowner name)	\$190,258	1	\$190,258
Task 7	None	Investigation Derived Waste Disposal Costs	\$60,000	1	\$60,000
Task 8	12 months	Sampling of Drinking Water Wells (15) and Monitoring Wells (36) and EPA MW01 per Sampling Event	\$106,483	2	\$212,966
Task 9	6 months	Report on Investigation	\$37,110	1	\$37,110
Task 10	4 months	Conduct Hydrogeophysical Testing on Deep Monitoring wells and geophysical (Optional)	\$130,000	1	\$130,000
Task 11	Concurrent	Gas Mudlogging	\$100,000	1	\$100,000
<b>45 months</b>					<b>\$3,114,762</b>